

[IEEE HOME](#) | [SEARCH IEEE](#) | [SHOP](#) | [WEB ACCOUNT](#) | [CONTACT IEEE](#)[Membership](#) | [Publications/Services](#) | [Standards](#) | [Conferences](#) | [Careers/Jobs](#)**IEEE Xplore®**  
RELEASE 1.4Welcome  
United States Patent and Trademark Office[Help](#) | [FAQ](#) | [Terms](#) | [IEEE](#) | [Quick Links](#)  
[Peer Review](#)[» Search Results](#)

Welcome to IEEE Xplore®

Your search matched **[0]** of **[918712]** documents.

- ☐ Home
- ☐ What Can I Access?
- ☐ Log-out

## Tables of Contents

- ☐ Journals & Magazines
- ☐ Conference Proceedings
- ☐ Standards

## Search

- ☐ By Author
- ☐ Basic
- ☐ Advanced

## Member Services

- ☐ Join IEEE
- ☐ Establish IEEE Web Account
- ☐ Access the IEEE Member Digital Library

Print Format

You may refine your search by editing the current search expression or entering a new one the text box. Then click search Again.

strip\$ <near/8> coupl\$ <near/8> ((disk or drive) <near/4> (control or electronics))

**OR**

Use your browser's back button to return to your original search page.

**Results:****No documents matched your query.**

[Home](#) | [Log-out](#) | [Journals](#) | [Conference Proceedings](#) | [Standards](#) | [Search by Author](#) | [Basic Search](#) | [Advanced Search](#)  
[Join IEEE](#) | [Web Account](#) | [New this week](#) | [OPAC Linking Information](#) | [Your Feedback](#) | [Technical Support](#) | [Email Alerting](#)  
[No Robots Please](#) | [Release Notes](#) | [IEEE Online Publications](#) | [Help](#) | [FAQ](#) | [Terms](#) | [Back to Top](#)

Copyright © 2002 IEEE — All rights reserved

[IEEE HOME](#) | [SEARCH IEEE](#) | [SHOP](#) | [WEB ACCOUNT](#) | [CONTACT IEEE](#)[Membership](#) | [Publications/Services](#) | [Standards](#) | [Conferences](#) | [Careers/Jobs](#)**IEEE Xplore®**  
RELEASE 1.4Welcome  
United States Patent and Trademark Office[Help](#) | [FAQ](#) | [Terms](#) | [IEEE](#) | [Quick Links](#)[» Search Results](#)

Welcome to IEEE Xplore®

Your search matched **[0]** of **[916175]** documents.

- ☐ Home
- ☐ What Can I Access?
- ☐ Log-out

## Tables of Contents

- ☐ Journals & Magazines
- ☐ Conference Proceedings
- ☐ Standards

## Search

- ☐ By Author
- ☐ Basic
- ☐ Advanced

## Member Services

- ☐ Join IEEE
- ☐ Establish IEEE Web Account
- ☐ Access the IEEE Member Digital Library

Print Format

You may refine your search by editing the current search expression or entering a new one the text box. Then click search Again.

BIOS and ((strip\* or control\*) &lt;near/8&gt; (IDE or ATA or RAID))

Search Again

OR

Use your browser's back button to return to your original search page.

## Results:

No documents matched your query.

[Home](#) | [Log-out](#) | [Journals](#) | [Conference Proceedings](#) | [Standards](#) | [Search by Author](#) | [Basic Search](#) | [Advanced Search](#)  
[Join IEEE](#) | [Web Account](#) | [New this week](#) | [OPAC Linking Information](#) | [Your Feedback](#) | [Technical Support](#) | [Email Alerting](#)  
[No Robots Please](#) | [Release Notes](#) | [IEEE Online Publications](#) | [Help](#) | [FAQ](#) | [Terms](#) | [Back to Top](#)

Copyright © 2002 IEEE — All rights reserved

## Welcome to IEEE Xplore®

- ☐ Home
- ☐ What Can I Access?
- ☐ Log-out

## Tables of Contents

- ☐ Journals & Magazines
- ☐ Conference Proceedings
- ☐ Standards

## Search

- ☐ By Author
- ☐ Basic
- ☐ Advanced

## Member Services

- ☐ Join IEEE
- ☐ Establish IEEE Web Account
- ☐ Access the IEEE Member Digital Library

 Print FormatYour search matched **38** of **914428** documents.A maximum of **38** results are displayed, **25** to a page, sorted by **Relevance** in **descending** order.

You may refine your search by editing the current search expression or entering a new one in the text box.

Then click **Search Again**.**Results:**Journal or Magazine = **JNL** Conference = **CNF** Standard = **STD****1 The Architecture Of A Fault-tolerant Cached RAID Controller***Menon, J.; Cortney, J.;*

Computer Architecture, 1993. Proceedings of the 20th Annual International Symposium on , 16-19 May 1993

Page(s): 76 -86

[\[Abstract\]](#) [\[PDF Full-Text \(840 KB\)\]](#) **IEEE CNF****2 The RAID configuration tool***Zabback, P.; Menon, J.; Riegel, J.;*

High Performance Computing, 1996. Proceedings. 3rd International Conference on , 19-22 Dec 1996

Page(s): 55 -61

[\[Abstract\]](#) [\[PDF Full-Text \(536 KB\)\]](#) **IEEE CNF****3 Proving correctness of a controller algorithm for the RAID Level 5 System***Vaziri, M.; Lynch, N.; Wing, J.;*

Fault-Tolerant Computing, 1998. Digest of Papers. Twenty-Eighth Annual International Symposium on , 23-25 Jun 1998

Page(s): 16 -25

[\[Abstract\]](#) [\[PDF Full-Text \(304 KB\)\]](#) **IEEE CNF****4 Design and implementation of a fibre channel network driver for SAN-attached RAID controllers***Jae-Chang Namgoong; Chan-Ik Park;*

Parallel and Distributed Systems, 2001. ICPADS 2001. Proceedings.  
Eighth International Conference on , 2001  
Page(s): 477 -483

[\[Abstract\]](#) [\[PDF Full-Text \(428 KB\)\]](#) **IEEE CNF**

---

**5 Performance analysis of RAID for different communication mechanism between RAID controller and string controllers**

*Dan Feng; Hai Jin; Jiang-Ling Zhang;*

Magnetics, IEEE Transactions on , Volume: 32 Issue: 5 , Sep 1996  
Page(s): 3890 -3892

[\[Abstract\]](#) [\[PDF Full-Text \(252 KB\)\]](#) **IEEE JRN**

---

**6 EVENODD: an optimal scheme for tolerating double disk failures in RAID architectures**

*Blaum, M.; Brady, J.; Bruck, J.; Menon, J.;*

Computer Architecture, 1994. Proceedings the 21st Annual  
International Symposium on , 18-21 Apr 1994  
Page(s): 245 -254

[\[Abstract\]](#) [\[PDF Full-Text \(716 KB\)\]](#) **IEEE CNF**

---

**7 The design and performance evaluation of the RAID 5 controller using the load-balanced destage algorithm**

*Yun-Seok Chang; Chong-Sang Kim;*

Parallel and Distributed Systems, 1997. Proceedings., 1997  
International Conference on , 10-13 Dec 1997  
Page(s): 28 -34

[\[Abstract\]](#) [\[PDF Full-Text \(688 KB\)\]](#) **IEEE CNF**

---

**8 Reliable cluster computing with a new checkpointing RAID-x architecture**

*Hwang, K.; Hai Jin; Ho, R.; Ro, W.;*

Heterogeneous Computing Workshop, 2000. (HCW 2000)  
Proceedings. 9th , 2000  
Page(s): 171 -184

[\[Abstract\]](#) [\[PDF Full-Text \(160 KB\)\]](#) **IEEE CNF**

---

**9 Real-time disk scheduling for block-stripping I2O RAID**

*Tei-Wei Kuo; Ji-Shin Rao; Lee, V.C.S.; Jun Wu;*

Real-Time Systems, 13th Euromicro Conference on, 2001. , 2001  
Page(s): 217 -224

[\[Abstract\]](#) [\[PDF Full-Text \(644 KB\)\]](#) **IEEE CNF**

---

**10 Improved RAID 5 controller using load-balanced destage algorithm**

*Kim, B.Y.; Chang, Y.S.;*

Electronics Letters , Volume: 34 Issue: 3 , 5 Feb 1998

Page(s): 248 -250

[\[Abstract\]](#) [\[PDF Full-Text \(380 KB\)\]](#) **IEE JRN**

---

**11 EVENODD: an efficient scheme for tolerating double disk failures in RAID architectures**

*Blaum, M.; Brady, J.; Bruck, J.; Jai Menon;*

Computers, IEEE Transactions on , Volume: 44 Issue: 2 , Feb 1995

Page(s): 192 -202

[\[Abstract\]](#) [\[PDF Full-Text \(972 KB\)\]](#) **IEEE JRN**

---

**12 Adaptability experiments in the RAID distributed database system**

*Bhargava, B.; Friesen, K.; Helal, A.; Riedl, J.;*

Reliable Distributed Systems, 1990. Proceedings., Ninth Symposium on , 9-12 Oct 1990

Page(s): 76 -85

[\[Abstract\]](#) [\[PDF Full-Text \(608 KB\)\]](#) **IEEE CNF**

---

**13 Adding adaptive flow control to Swift/RAID**

*Fullmer, C.L.; Long, D.D.E.; Cabrera, L.-F.;*

Computers and Communications, 1995. Conference Proceedings of the 1995 IEEE Fourteenth Annual International Phoenix Conference on , 28-31 Mar 1995

Page(s): 290 -296

[\[Abstract\]](#) [\[PDF Full-Text \(644 KB\)\]](#) **IEEE CNF**

---

**14 Improving partial stripe write performance in RAID level 5**

*Hai Jin; Xinrong Zhou; Dan Feng; Jiangling Zhang;*

Devices, Circuits and Systems, 1998. Proceedings of the 1998 Second IEEE International Caracas Conference on , 2-4 Mar 1998

Page(s): 396 -400

[\[Abstract\]](#) [\[PDF Full-Text \(424 KB\)\]](#) **IEEE CNF**

---

**15 Striping and buffer caching for software RAID file systems in workstation clusters**

*Jong-Hoon Kim; Se-Woong Eom; Noh, S.H.; Yoo-Hun Won;*  
Distributed Computing Systems, 1999. Proceedings. 19th IEEE International Conference on , 1999  
Page(s): 544 -551

[\[Abstract\]](#) [\[PDF Full-Text \(168 KB\)\]](#) **IEEE CNF**

---

**16 260 Mb/s mixed-signal single-chip integrated system electronics for magnetic hard disk drives**

*Nemazie, S.; Khan, A.K.; Papat, K.; Duc-Ngoc Le; Steven Shiang-Jyh Chang; Foland, W.; Kinying Kwan; John Yu; Steven Yang; Mcpherson, R.; Dujari, I.; Futakami, H.; Bonomi, D.; Maoxin Wei; Scott, B.; Ganesan, R.;*  
Solid-State Circuits Conference, 1999. Digest of Technical Papers. ISSCC. 1999 IEEE International , 1999  
Page(s): 42 -43

[\[Abstract\]](#) [\[PDF Full-Text \(292 KB\)\]](#) **IEEE CNF**

---

**17 Design and evaluation of a generic software architecture for on-demand video servers**

*Chien-Liang Liu, J.; Du, D.H.C.; Shim, S.S.Y.; Jenwei Hsieh; MengJou Lin;*  
Knowledge and Data Engineering, IEEE Transactions on , Volume: 11 Issue: 3 , May/Jun 1999  
Page(s): 406 -424

[\[Abstract\]](#) [\[PDF Full-Text \(568 KB\)\]](#) **IEEE JRN**

---

**18 The application of two-level cache in RAID system**

*Chen Yun; Yang Genke; Wu Zhiming;*  
Intelligent Control and Automation, 2002. Proceedings of the 4th World Congress on , Volume: 2 , 2002  
Page(s): 1328 -1332

[\[Abstract\]](#) [\[PDF Full-Text \(336 KB\)\]](#) **IEEE CNF**

---

**19 An experimental analysis of replicated copy control site failure and recovery**

*Bhargava, B.; Noll, P.; Sabo, D.;*  
Data Engineering, 1988. Proceedings. Fourth International Conference on , 1-5 Feb 1988  
Page(s): 82 -91

[\[Abstract\]](#) [\[PDF Full-Text \(648 KB\)\]](#) **IEEE CNF**

---

**20 Decoupling control of thrust and attractive force a LIM using a space vector control inverter**

*Takahashi, I.; Ide, Y.;*

Industry Applications Society Annual Meeting, 1990., Conference Record of the 1990 IEEE , 7-12 Oct 1990

Page(s): 565 -570 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(504 KB\)\]](#) **IEEE CNF**

---

**21 Algorithms for software and low-cost hardware RAIDs**

*Menon, J.; Riegel, J.; Wyllie, J.;*

Comcon '95.'Technologies for the Information Superhighway', Digest of Papers. , 5-9 Mar 1995

Page(s): 411 -419

[\[Abstract\]](#) [\[PDF Full-Text \(648 KB\)\]](#) **IEEE CNF**

---

**22 RAID-x: a new distributed disk array for I/O-centric cluster computing**

*Kai Hwang; Hai Jin; Roy Ho;*

High-Performance Distributed Computing, 2000. Proceedings. The Ninth International Symposium on , 2000

Page(s): 279 -286

[\[Abstract\]](#) [\[PDF Full-Text \(848 KB\)\]](#) **IEEE CNF**

---

**23 Robust controller synthesis for plants satisfying a certain class of IQC**

*Ohara, A.; Matsumoto, K.; Ide, M.;*

American Control Conference, 2001. Proceedings of the 2001 , Volume: 5 , 2001

Page(s): 3427 -3432 vol.5

[\[Abstract\]](#) [\[PDF Full-Text \(424 KB\)\]](#) **IEEE CNF**

---

**24 Decoupling control of thrust and attractive force of a LIM using a space vector control inverter**

*Takahashi, I.; Ide, Y.;*

Industry Applications, IEEE Transactions on , Volume: 29 Issue: 1 , Jan/Feb 1993

Page(s): 161 -167

[\[Abstract\]](#) [\[PDF Full-Text \(620 KB\)\]](#) **IEEE JRN**

---

25 **Supporting server-level fault tolerance in  
concurrent-push-based parallel video servers**

*Lee, J.Y.B.;*

Circuits and Systems for Video Technology, IEEE Transactions on ,

Volume: 11 Issue: 1 , Jan 2001

Page(s): 25 -39

[\[Abstract\]](#) [\[PDF Full-Text \(316 KB\)\]](#) **IEEE JRN**

---

1 2 [\[Next\]](#)

[Home](#) | [Log-out](#) | [Journals](#) | [Conference Proceedings](#) | [Standards](#) | [Search by Author](#) | [Basic Search](#) | [Advanced Search](#)  
[Join IEEE](#) | [Web Account](#) | [New this week](#) | [OPAC Linking Information](#) | [Your Feedback](#) | [Technical Support](#) | [Email Alerting](#)  
[No Robots Please](#) | [Release Notes](#) | [IEEE Online Publications](#) | [Help](#) | [FAQ](#) | [Terms](#) | [Back to Top](#)

Copyright © 2002 IEEE — All rights reserved





[> home](#) [> about](#) [> feedback](#) [> login](#)  
US Patent & Trademark Office

## Search Results

Search Results for: [BIOS and ((strip\* or control\*) <near/8> (IDE or ATA or RAID))]

Found 8 of 105,850 searched. → Rerun within the Portal

Search within Results



[> Advanced Search](#) [> Search Help/Tips](#)


**Sort by:** [Title](#) [Publication](#) [Publication Date](#) [Score](#) [Binder](#)

**Results 1 - 8 of 8** [short listing](#)


- |          |   |     |
|----------|---|-----|
| <b>1</b> | ICP vortex GDT RAID Controllers   | 84% |
|          | Eric Green<br>Linux Journal January 1999  |     |
| <b>2</b> | Kernel Korner   | 83% |
|          | Joseph Pranevich<br>Linux Journal December 1998<br>The Wonderful World of Linux 2.2: Mr. Pranevich gives us a look at the changes and improvements coming out in the new kernel |     |
| <b>3</b> | Best of technical support   | 80% |
|          | CORPORATE Linux Journal Staff<br>Linux Journal February 2002<br>Volume 2002 Issue 94  |     |
| <b>4</b> | A small staff coping with technology replacement, year one  | 80% |
|          | Chris Harmon<br>Proceedings of the 27th annual ACM SIGUCCS conference on User services: Mile high expectations November 1999  |     |
| <b>5</b> | Installation and configuration of FreeBSD   | 80% |
|          | Sean Eric Fagan<br>Linux Journal January 1999<br>Here's how to set up a web server using another freely available   |     |

operating system, FreeBSD, a high performance, mature, UNIX-like system


**6** More Letters 80%

 Linux Journal January 2000

**7** New products 77%

 Linux Journal November 2002  
Volume 2002 Issue 103

**8** New Products 77%

 CORPORATE Linux Journal Staff  
Linux Journal October 2000

---

**Results 1 - 8 of 8      short listing**

---

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2003 ACM, Inc.



[> home](#) [> about](#) [> feedback](#) [> login](#)  
US Patent & Trademark Office

## Search Results

### Nothing Found

Your search for [((disk or drive) <near/2> (control\* or electronics)) <near/8> strip\*] did not return any results.


You can try to rerun it within the Portal.

You may revise it and try your search again below or click advanced search for more options.

<pre>((disk or drive) &lt;near/2&gt; (control* or electronics)) &lt;near/8&gt; strip* □</pre>	<input type="button" value="SEARCH"/>
---	---------------------------------------

[\[Advanced Search\]](#) [\[Search\]](#)

### Help/Tips

 [Complete Search Help and Tips](#)

### The following characters have specialized meaning:

Special Characters	Description
, ( ) [	These characters end a text token.
= > < !	These characters end a text token because they signify the start of a field operator. (! is special: != ends a token.)
` @ \Q < { [ !	These characters signify the start of a delimited token. These are terminated by the end character associated with the start character.



[> home](#) [> about](#) [> feedback](#) [> login](#)  
US Patent & Trademark Office

## Search Results

Search Results for: [(((IDE or ATA or disk or drive) <near/2> (control\* or electronics)) <near/8> (RAID or strip\*))]

Found 13 of 105,850 searched. → Rerun within the Portal

Search within Results




[> Advanced Search](#) [> Search Help/Tips](#)

**Sort by:** [Title](#) [Publication](#) [Publication Date](#) [Score](#) [Binder](#)

**Results 1 - 13 of 13**    **short listing**

- |          |   |      |
|----------|---|------|
| <b>1</b> | What has 1.1 terabytes, 9,503 bogomips and flies?   | 100% |
|          | Don Marti<br>Linux Journal September 2002<br>Volume 2002 Issue 101<br>With a collection of hot hardware, Mr. Marti shows that you can't judge a box by its color. |      |
| <b>2</b> | New products  | 100% |
|          | CORPORATE Linux Journal Staff<br>Linux Journal July 2001<br>Volume 2001 Issue 87  |      |
| <b>3</b> | New Products  | 100% |
|          | Linux Journal October 1998  |      |
| <b>4</b> | Barrier-breaking performance for industrial problems on the   | 99%  |
|          | CRAY C916<br>S. K. Graffunder<br>Proceedings of the 1993 ACM/IEEE conference on Supercomputing<br>December 1993   |      |
| <b>5</b> | Best of technical support   | 98%  |
|          | CORPORATE Linux Journal Staff   |      |

Linux Journal February 2002  
Volume 2002 Issue 94

- 6** Reliability and performance of hierarchical RAID with multiple controllers 98%  


Sung Hoon Baek , Bong Wan Kim , Eui Joung Joung , Chong Won Park

Proceedings of the twentieth annual ACM symposium on Principles of distributed computing August 2001

Redundant arrays of inexpensive disks (RAID) offer fault tolerance against disk failures. However a storage system having more disks suffers from less reliability and performance. A RAID architecture tolerating multiple disk failures shows severe performance degradation in comparison to the RAID Level 5 due to the complexity of implementation. We present a new RAID architecture that tolerates at least three disk failures and offers similar throughput to the RAID Level 5. We call it the hierar ...

- 7** Choosing the best storage system for video service 98%  


Ann L. Chervenak , David A. Patterson , Randy H. Katz

Proceedings of the third ACM international conference on Multimedia January 1995

- 8** The TickerTAIP parallel RAID architecture 98%  


Pei Cao , Swee Boon Lin , Shivakumar Venkataraman , John Wilkes  
ACM Transactions on Computer Systems (TOCS) August 1994  
Volume 12 Issue 3

Traditional disk arrays have a centralized architecture, with a single controller through which all requests flow. Such a controller is a single point of failure, and its performance limits the maximum number of disks to which the array can scale. We describe TickerTAIP, a parallel architecture for disk arrays that distributes the controller functions across several loosely coupled processors. The result is better scalability, fault tolerance, and flexibility. This article present ...


- 9** AlphaSort: a RISC machine sort 97%  


Chris Nyberg , Tom Barclay , Zarka Cvetanovic , Jim Gray , Dave Lomet

ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD  
international conference on Management of data May 1994  
Volume 23 Issue 2

A new sort algorithm, called AlphaSort, demonstrates that commodity processors and disks can handle commercial batch workloads. Using Alpha AXP processors, commodity memory, and arrays of SCSI disks, AlphaSort runs the industry-standard sort benchmark in seven seconds. This beats the best published record on a 32-cpu 32-disk Hypercube by 8:1. On another benchmark, AlphaSort sorted more than a gigabyte in a minute. AlphaSort is a cache-sensitive memory-intensive sort algorithm. It ...


**10** Experiences with VI communication for database storage 97%

 Yuanyuan Zhou , Angelos Bilas , Suresh Jagannathan , Cezary Dubnicki , James F. Philbin , Kai Li  
ACM SIGARCH Computer Architecture News , Proceedings of the  
29th annual international symposium on Computer architecture May  
2002


Volume 30 Issue 2

This paper examines how VI-based interconnects can be used to improve I/O path performance between a database server and the storage subsystem. We design and implement a software layer, DSA, that is layered between the application and VI. DSA takes advantage of specific VI features and deals with many of its shortcomings. We provide and evaluate one kernel-level and two user-level implementations of DSA. These implementations trade transparency and generality for performance at different degrees  
...


**11** New products 96%

 Linux Journal November 2002  
Volume 2002 Issue 103

**12** RAID-II: a high-bandwidth network file server 95%

 A. L. Drapeau , K. W. Shirriff , J. H. Hartman , E. L. Miller , S. Seshan , R. H. Katz , K. Lutz , D. A. Patterson , E. K. Lee , P. M. Chen , G. A. Gibson  
ACM SIGARCH Computer Architecture News , Proceedings of the  
21ST annual international symposium on Computer architecture April  
1994  
Volume 22 Issue 2

**13** Dynamic file allocation in disk arrays 95%

 Gerhard Weikum , Peter Zabback , Peter Scheuermann  
ACM SIGMOD Record , Proceedings of the 1991 ACM SIGMOD

international conference on Management of data April 1991  
Volume 20 Issue 2

---

**Results 1 - 13 of 13      short listing**

---

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2003 ACM, Inc.